

# COMMERCIAL FIRE SPRINKLER SUBMITTAL CHECKLIST

## **PERMIT SUBMITTAL REQUIREMENTS:**

- 1. Three complete sets of plans and calculations. All pages of the submitted plans must be stamped with the appropriate state fire marshal competency stamp. Only the cover sheet need be 'wet-stamped'.**
- 2. Maximum size of plan sets: 42" long, 30" wide (bound edge), 5/8" thick. All pages in a plan set shall be uniformly sized.**
- 3. Completed Permit Application.**
- 4. All documents must be clearly legible for microfilming, each page consecutively numbered and stapled.**

The following information must be included on the plans:

1. Name of owner and occupant.
2. Location, including street address.
3. North arrow.
4. Ceiling construction.
5. Building sections.
6. Location of fire walls.
7. Location of partitions.
8. Use of each area or room.
9. Location and size of concealed spaces, attics, closets and bathrooms.
10. Any questionable small enclosures in which no sprinklers are to be installed.
11. Size of City main in street, pressure and whether dead-end or circulating. If dead-end, direction and distance to nearest circulating main, City main tests results and elevation relative to the test hydrant.
12. Other sources of water supply with pressure or elevation.
13. Make, type and nominal orifice size of sprinkler.
14. Temperature rating and location of high-temperature sprinklers.
15. Total area protected by each system on each floor.
16. Number of sprinklers on each riser per floor.
17. Make, type, model and size of alarm or dry-pipe valve.
18. Make, type, model and size of pre-action or deluge valve
19. Kind and location of alarm bells.
20. Total number of sprinklers on each dry-pipe system, pre-action system, combined dry-pipe/pre-action system or deluge system.
21. Approximate capacity in gallons of each dry-pipe system.
22. Pipe type and schedule of wall thickness.
23. Nominal pipe size and cutting lengths of pipe (or center to center dimensions.) NOTE: where typical branch lines prevail, it will be necessary to size only one line.
24. Location and size of riser nipples.
25. Type of fittings and joints.
26. Types and locations of hangers, sleeves, braces and methods of securing sprinklers, when applicable.

27. Cut sheet and model number for WA State approved cross connection, shown on plans inside vault or inside building. All control valves, check valves, drains and test connections.
28. Size and location of hand hose, hose outlets and related equipment.
29. Underground pipe size, length, location, weight, material and point of connect to City main; type of valves, meters and valve pits; and the depth that top of the pipe is laid below grade.
30. Provision for flushing.
31. When the equipment is to be installed as an addition to an existing system, enough of the existing system shall be indicated on the plans to make all conditions clear.
32. For hydraulically designed systems, a representation of the hydraulic data nameplate and it's proposed location.
33. Name, address and license number of contractor.
34. Method protection for nonmetallic piping.
35. A graphical representation of the scale.
36. Certificate of competency stamp on each sheet and calculations.

#### **APPLICABLE CODES AND REFERENCES**

- International Fire Code (IFC), 2012 Edition & WAC 51-54
- International Energy Conservation Code, Residential (IECC) 2012 Edition, WAC 51-11C or R
- Automatic Fire Detection & Suppression System Ordinance No. 1902-92